



DATE

SAMPLE

METEX CORPORATION
CLARK, N. J.ENCLOSED IS THE SAMPLE OF METEX®
R. F. SHIELDING MATERIAL YOU RECENTLY
REQUESTED. IF YOU REQUIRE MORE INFOR-
MATION, WE WILL BE HAPPY TO FURNISH IT.

REFERENCE: _____

SAMPLE: _____

CUSTOMER: **ME-10****POLASTRIP**

DATE: _____

REFERENCE: _____

SAMPLES SENT: _____

Metex P
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so great that the effect of the horizon-
tal wires can be ignored. An excellent
analogy would be to consider that the
many rows of vertical w
a multitude of miniatu
sions of these waveguide
ate signals below a frequ
gc. Thus Polastrip is, in effect, a "waveguide be-
yond cut-off." For this reason Polastrip exhibits 10
to 30 db greater insertion loss than conventional
knitted mesh gasketing in typical applications.

*The unique advantages of Polastrip are
tabulated and explained as follows:*

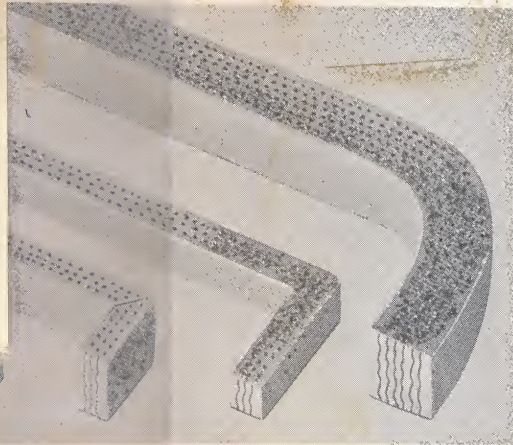
- 1. High O.S.A.*** Because of its unique construction, Polastrip is capable of yielding an O.S.A. of 125 to 135 db. This is 10-30 db better than conventional shielding materials. With high insertion loss possible, the job of shielding a system to Mil specifications is simplified.
- 2. Integral Pressure and RFI Seal.** Polastrip is the only material available which offers a combination of pressure and RFI seal in a reliable, fail-proof construction. The RFI shielding is not bonded to, but molded into the pressure seal. There is no chance for separation of components. In the case of Combo-Polastrip constructions, where a mounting tab is affixed for flat flange installation, the silicone mounting portion is molded directly to the sealing portion.
- 3. Compatibility.** We normally recommend Monel as the best all-round shielding material (refer to ME-1 for details). There are cases, however,

DATA

SHEET NO.

ME-10**Polastrip®**

ORIENTED WIRE SHIELDING MATERIAL

S

absolute adherence to the requirements for
similar metals is necessary. For these cases,
is available with aluminum or other
wire. Because the wire is supported by the rubber
surrounding it, the problem of designing around
the poor physical properties of aluminum is elim-
inated. Also, contact is made with the cut edge of
a fine wire. Thus contact pressure is high (of the
order of several thousand psi at the point of the
wire) and the aluminum oxide film is penetrated.
While Monel is still the recommended material,
aluminum Polastrip represents the first suitable
shielding material ever manufactured from this
metal.

- 4. No loose chips.** The basic construction of Polastrip eliminates fraying and chipping which can occur with many knitted mesh constructions. Although the surface of Polastrip does occasionally contain wires which may separate, once these are cleaned off there is no chance of additional chips. Polastrip may be cut to length with a scissor and will yield a finished end without chips.

Polastrip has been tested and accepted by several major military systems prime contractors as well as by several branches of the U. S. Armed Services. It has been used on many major aerospace programs. Additional information on current users of Polastrip is available on request.

*Overall System Attenuation

APPLICATION PROVED ENGINEERED SHIELDING

METEX ELECTRONICS

A DIVISION OF FERRODYNAMICS CORPORATION

CLARK, NEW JERSEY

Telephone: 201-FU 1-7272 • Twx: 201-381-4693

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Data for Designers

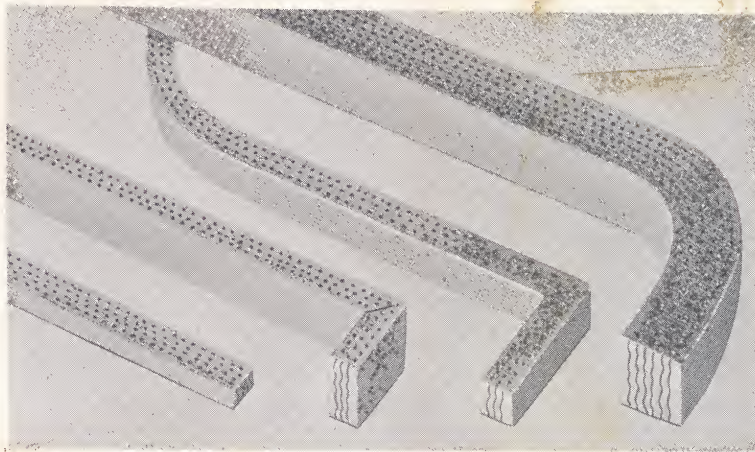
DATA
SHEET NO. **ME-10**
Polastrap®
ORIENTED WIRE SHIELDING MATERIAL

Metex Polastrap consists of an oriented-wire mesh imbedded in a matrix of elastomeric material. The imbedded mesh contains a large number of wires which are aligned perpendicular to the surfaces to be shielded. The special orientation of the mesh allows for an almost direct, straight-line path from top to bottom of the strip.

It has been observed experimentally that vertical wires tend to attenuate, while horizontal wires tend to re-transmit radio frequency energy. The proportion of wire in the vertical plane is so great that the effect of the horizontal wires can be ignored. An excellent analogy would be to consider that the many rows of vertical wires represent a multitude of miniature waveguides. The dimensions of these waveguides are such that they attenuate signals below a frequency of approximately 50 gc. Thus Polastrap is, in effect, a "waveguide beyond cut-off." For this reason Polastrap exhibits 10 to 30 db greater insertion loss than conventional knitted mesh gasketing in typical applications.

The unique advantages of Polastrap are tabulated and explained as follows:

1. **High O.S.A.*** Because of its unique construction, Polastrap is capable of yielding an O.S.A. of 125 to 135 db. This is 10-30 db better than conventional shielding materials. With high insertion loss possible, the job of shielding a system to Mil specifications is simplified.
2. **Integral Pressure and RFI Seal.** Polastrap is the only material available which offers a combination of pressure and RFI seal in a reliable, fail-proof construction. The RFI shielding is not bonded to, but molded into the pressure seal. There is no chance for separation of components. In the case of Combo-Polastrap constructions, where a mounting tab is affixed for flat flange installation, the silicone mounting portion is molded directly to the sealing portion.
3. **Compatibility.** We normally recommend Monel as the best all-round shielding material (refer to ME-1 for details). There are cases, however,



where absolute adherence to the requirements for use of similar metals is necessary. For these cases, Polastrap is available with aluminum or other wire. Because the wire is supported by the rubber surrounding it, the problem of designing around the poor physical properties of aluminum is eliminated. Also, contact is made with the cut edge of a fine wire. Thus contact pressure is high (of the order of several thousand psi at the point of the wire) and the aluminum oxide film is penetrated. While Monel is still the recommended material, aluminum Polastrap represents the first suitable shielding material ever manufactured from this metal.

4. **No loose chips.** The basic construction of Polastrap eliminates fraying and chipping which can occur with many knitted mesh constructions. Although the surface of Polastrap does occasionally contain wires which may separate, once these are cleaned off there is no chance of additional chips. Polastrap may be cut to length with a scissor and will yield a finished end without chips.

Polastrap has been tested and accepted by several major military systems prime contractors as well as by several branches of the U. S. Armed Services. It has been used on many major aerospace programs. Additional information on current users of Polastrap is available on request.

*Overall System Attenuation

APPLICATION PROVED ENGINEERED SHIELDING

METEX ELECTRONICS

A DIVISION OF FERRODYNAMICS CORPORATION

CLARK, NEW JERSEY

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METEX

Polastrap

ORIENTED WIRE RFI GASKETING MATERIAL WITH POSITIVE PRESSURE SEAL

STANDARD POLASTRIP CONSTRUCTIONS

Listed below are standard Polastrap constructions. Because of the orientation of the strip, the width is always specified first and the height second.

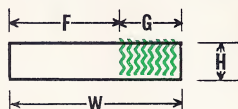
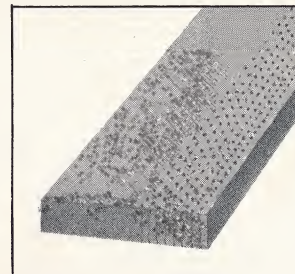
Important note: Although all parts can be manufactured to order, the expense of set-up prevents stocking all cross-sections. *For economy and speed, we recommend the parts indicated by green shading be used wherever possible.* For other cross-sections and materials, cost of sample lot of approximately 50 feet will run from \$75 to \$150. Cost for production quantities of all strips will depend on material and cross-section. The approximate range for the common sizes is between \$.50 to \$1.50/ft. Consult your local Metex Representative for additional information on other sizes, materials, etc.

DIMENSIONS		PART NUMBERS			
Width	Height	Monel in Solid Silicone	Monel in Sponge Silicone	Aluminum in Solid Silicone	Aluminum in Sponge Silicone
1/8 x 1/8"		14-004	14-032	14-048	14-068
1/8 x 5/32"		14-096	14-097	14-098	14-099
1/8 x 3/16"		14-019	14-033	14-049	14-069
1/8 x 1/4"		14-100	14-101	14-102	14-103
3/16 x 1/8"		14-020	14-034	14-050	14-070
3/16 x 3/16"		14-011	14-014	14-051	14-071
3/16 x 1/4"		14-017	14-035	14-052	14-072
3/16 x 5/16"		14-016	14-036	14-053	14-073
3/16 x 3/8"		14-104	14-105	14-106	14-107
1/4 x 1/8"		14-010	14-013	14-054	14-074
1/4 x 3/16"		14-021	14-037	14-055	14-075
1/4 x 1/4"		14-003	14-012	14-056	14-076
1/4 x 5/16"		14-022	14-038	14-057	14-077
1/4 x 3/8"		14-023	14-039	14-058	14-078
1/4 x 1/2"		14-108	14-109	14-110	14-111
5/16 x 1/8"		14-024	14-040	14-059	14-079
5/16 x 3/16"		14-025	14-041	14-060	14-080
5/16 x 1/4"		14-026	14-042	14-061	14-081
5/16 x 5/16"		14-027	14-043	14-062	14-082
5/16 x 3/8"		14-112	14-113	14-114	14-115
5/16 x 1/2"		14-116	14-117	14-118	14-119
3/8 x 1/8"		14-028	14-044	14-063	14-083
3/8 x 3/16"		14-120	14-121	14-122	14-123
3/8 x 1/4"		14-029	14-045	14-064	14-084
3/8 x 5/16"		14-124	14-125	14-126	14-127
3/8 x 3/8"		14-030	14-046	14-065	14-085
3/8 x 1/2"		14-128	14-129	14-130	14-131
3/8 x 5/8"		14-132	14-133	14-134	14-135
1/2 x 1/8"		14-088	14-090	14-092	14-094
1/2 x 3/16"		14-089	14-091	14-093	14-095
1/2 x 1/4"		14-031	14-015	14-066	14-086
1/2 x 5/16"		14-136	14-137	14-138	14-139
1/2 x 3/8"		14-140	14-141	14-142	14-143
1/2 x 1/2"		14-009	14-047	14-067	14-087
1/2 x 5/8"		14-144	14-145	14-146	14-147
1/2 x 3/4"		14-148	14-149	14-150	14-151
5/8 x 1/8"		14-152	14-158	14-164	14-170
5/8 x 3/16"		14-153	14-159	14-165	14-171
5/8 x 1/4"		14-154	14-160	14-166	14-172
5/8 x 3/8"		14-155	14-161	14-167	14-173
5/8 x 1/2"		14-156	14-162	14-168	14-174
5/8 x 5/8"		14-157	14-163	14-169	14-175

Above this size, see Metex Combo-Polastrap

COMBO POLASTRIP:

For flat flange applications, Combo Polastrip offers all the advantages of regular Polastrip plus a molded mounting strip. The mounting portion is *not adhesive bonded but is molded* directly to the shielding portion of the strip. This construction constitutes the utmost in effectiveness and reliability. For other sizes or materials consult Metex.



DIMENSIONS				PART NUMBERS	
"W" Width	"H" Height	"F" Flange	"G" Gasket	Monel in Solid Silicone	Monel in Sponge Silicone
3/8 x 1/8"		3/16"	3/16"	14-176	14-187
1/2 x 1/8"		1/4"	1/4"	14-177	14-188
5/8 x 1/8"		3/8"	1/4"	14-178	14-189
3/4 x 1/8"		1/2"	1/4"	14-179	14-190
3/8 x 3/16"		3/16"	3/16"	14-180	14-191
1/2 x 3/16"		1/4"	1/4"	14-181	14-192
5/8 x 3/16"		3/8"	1/4"	14-182	14-193
3/4 x 3/16"		1/2"	1/4"	14-183	14-194
1/2 x 1/4"		1/4"	1/4"	14-184	14-195
5/8 x 1/4"		3/8"	1/4"	14-185	14-196
3/4 x 1/4"		1/2"	1/4"	14-186	14-197

SPECIFICATIONS

Solid Silicone Rubber—Mil R 5847, Class III, 25 durometer.

Also available on special order with 10 durometer silicone rubber, Butyl, Buna-N and neoprene.

Sponge Silicone Rubber—AMS 3195.

Monel—QQN-281-A.

Aluminum—AMS 4182A.

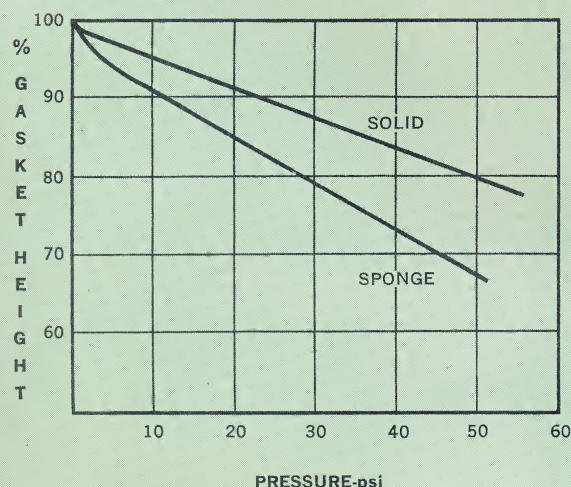
TOLERANCES

1/8" to 1/4" Solid: width $\pm .015"$, height $\pm .010"$; Sponge: width $\pm .031"$, height $\pm .015"$
 5/16" to 7/16" Solid: width $\pm .031"$, height $\pm .015"$; Sponge: width $\pm .031"$, height $\pm .015"$
 1/2" to 3/4" Solid: width $\pm .031"$, height $\pm .031"$; Sponge: width $\pm .046"$, height $\pm .031"$

Closer tolerances are available on special order.

Length — normally 10-20 feet. Can be furnished to pre-cut lengths.

POLASTRIP COMPRESSION CURVE



Curve based upon data taken from compression test on 1/4" x 1/4" cross-section silicone rubber

APPLICATIONS INFORMATION

MECHANICAL

Compression deflection of Polastrip is shown in curve (left). The support given to the rubber by the mesh tends to prevent compression set. Set of less than 3% will result if Polastrip is designed for a maximum of 33% deflection.

Sponge Polastrip is suitable for drip-proof, dust-proof or low pressure (0-5 psi) seals. For pressure seal, solid Polastrip is required.

METEX

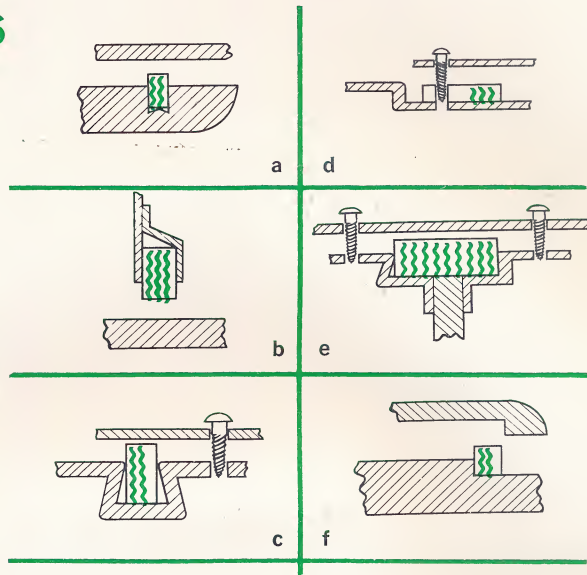
Polastrip

ORIENTED WIRE RFI GASKETING MATERIAL WITH POSITIVE PRESSURE SEAL

MOUNTING SUGGESTIONS AND GROOVE DESIGN

Groove depth should range from $\frac{1}{2}$ " to $\frac{3}{4}$ " of Polastrip height. The use of strips with height to width ratios of greater than 1:1 allows for a reduction in the pressure required to effect a given amount. For example: $\frac{1}{8}$ " wide x $\frac{1}{4}$ " high Polastrip requires approximately 30 psi to compress .025" whereas $\frac{1}{8}$ " x $\frac{1}{8}$ " Polastrip requires approximately 55 psi to compress the same distance.

Groove should be designed to allow expansion room for solid Polastrip under compression. This can be accomplished in several ways, (see illustrations a, b, c, and e). Normally side-wall friction will hold strip in place.



FABRICATION OF POLASTRIP GASKET:

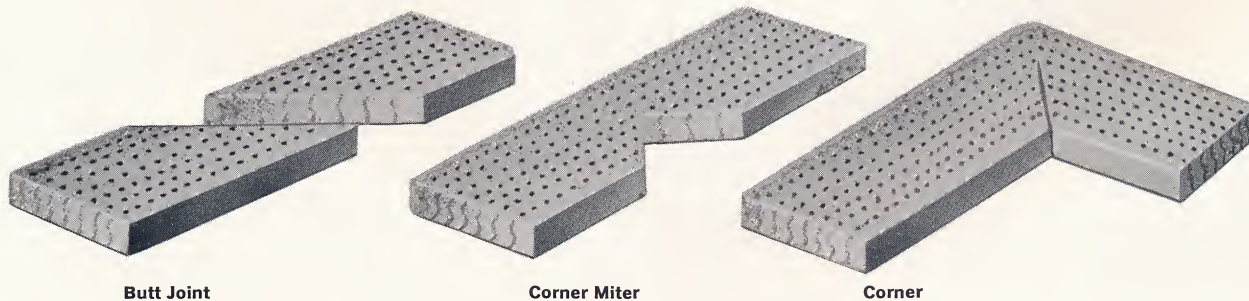
Our first recommendation is: LET METEX FABRICATE. Our experience and techniques will eliminate the problems of field fabrication. Polastrip can be made to form a relatively square corner by mitering a 90° cut approximately $\frac{2}{3}$ into the width of the strip and then bending around. The corner can then be stapled or bonded to hold it together. For joining, mating ends should be cut at 45° angle and butted. For

thin sections, stapling the ends is satisfactory. For thicker sections, or where Metex supplies fabricated material, the strip will be furnished with an adhesive-bonded, RF-tight butt joint.

For bonding of Polastrip to itself,
we recommend: Silastic #140*

For bonding of Polastrip to metal,
we recommend: A-4000*

*Manufactured by Dow Corning Corp., Midland, Michigan.



Butt Joint

Corner Miter

Corner

METEX ELECTRONICS

A DIVISION OF FERRODYNAMICS CORPORATION

CLARK, NEW JERSEY

Telephone: 201-FU 1-7272 • Twx: 201-381-4693

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Permit No. 252
(Sec. 34.9, P. L. & R.)
Clark, N.J.

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**METEX
CORPORATION**
WALNUT AVENUE, CLARK, NEW JERSEY



IN ORDER TO AID YOU —

in evaluating R. F. shielding products, we have provided this self-addressed questionnaire. Please fill it out as complete as possible so we can further assist you.

Check Here For Complete Data File ☐	Electronic Weatherstrip	Combo-Strip Rubber-Mesh Strip	Compressed Mesh Gaskets	Combination Rubber Mesh Gasket	Metalastic® Flat Sheet Gasket	Metalex® Metal-Mounted Metex	Knitted Wire Mesh Tapes	Special Eng'd. Metex Strips	Polastrip — Oriented Wire Shielding	Polasheet Flat Sheet Gasket	Polaring Shielded O-Ring	Shielded Cooling Cells	Premium Combo-Strip	Pola-Vu Shielded Windows
	ME- 2	ME- 3	ME- 4	ME- 5	ME- 6	ME- 7	ME- 8	ME- 9	ME- 10	ME- 11A	ME- 13	ME- 14	ME- 15	ME- 16
Send Data Sheet Checked														
Send Sample														
Send Price & Delivery														
Send Field Engineer														

2

My application for these products is

☐ Immediate

☐ Current

☐ Future

3

What is the application (Please indicate for which product)?

4

Have you ever specified or bought shielding products?

☐ Yes

☐ No

5

Have you ever specified Metex products

☐ Yes

☐ No

6

My engineering job function is ☐ Design

☐ Evaluation/Test ☐ Production ☐ Other _____

My work involves ☐ Mechanical ☐ Electronic ☐ Both

7

☐ Please add my name to mailing list.

NAME _____ TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____

My Purchasing Agent's Name is _____

METEX
ELECTRONICS



MAILING
LIST

WE ENCLOSE THE LITERATURE AND/OR SAMPLES YOU RECENTLY REQUESTED. WE ARE ALSO TAKING THE LIBERTY OF ENCLOSING A READER SERVICE CARD FOR YOUR USE. RETURN OF THIS CARD WILL PLACE YOUR NAME ON OUR PERMANENT MAILING LIST FOR FUTURE PRODUCT INFORMATION CONCERNING RFI SHIELDING. WE WOULD APPRECIATE YOUR FILLING OUT THE ENCLOSED CARD AND RETURNING TO US. THANK YOU FOR YOUR INTEREST IN METEX.

Herbert C. Boyton
Herbert C. Boyton, Sales Manager

SHORT FORM CATALOG



**METEX- the ONLY manufacturer
of this complete line of RFI MATERIALS**



METEX CORPORATION

WALNUT AVENUE • CLARK • NEW JERSEY • Telephone: 201-381-7272 • TWX 201-381-4693

West Coast Stock: 5057 West Washington Boulevard, Los Angeles, California

What's NEW IN RFI SHIELDING

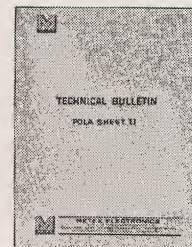


NEW POLASHEET II IS ULTRA-THIN

RFI Shield and Seal .045 Thickness



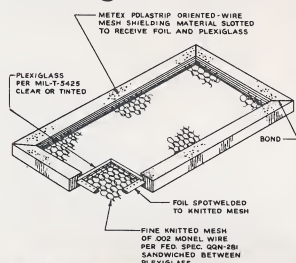
Polasheet II will yield an over-all system attenuation of 125 to 135 db and a sealing pressure up to 30 psi. Insertion loss measurements of as much as 100 db achieved, exceeds conventional materials by 10 to 30 db. This ultra-thin, uniform thickness, shielding material can be die cut to produce a resilient, flexible gasket of odd or complex shapes. It does not require machined surfaces for proper installation.



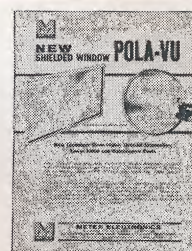
Write for technical bulletin.

NEW SHIELDED WINDOW

Get Higher Over-All System Attenuation - Lower Costs



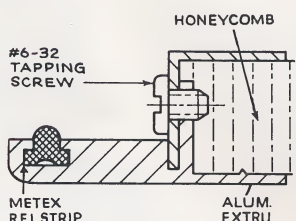
Metex Pola-Vu incorporates several unique design features — the fine knitted mesh is sandwiched between plexiglass — a strip of foil is spot welded to the knitted mesh — Polastrip is slotted to receive the foil and plexiglass — the result is a pressure and RFI sealed window of high visibility, high attenuation and easy access for maintenance. Plexiglass sandwich thickness; clear from .080" tinted from .125". Other thicknesses available. Over-all dimensions: rectangular; 1½" square to 12" x 30"; circular 2" to 12" dia.



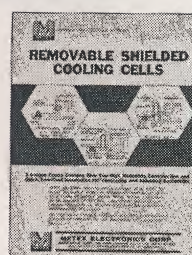
Write for technical bulletin.

NEW REMOVABLE SHIELDED COOLING CELLS

Cool and Shield Electronic Enclosures



Savings up to 75% are realized with the removability feature of Metex Honeycomb panel as compared to the replacing of a complete panel. Three unique frame designs give you high reliability construction and quick, low-cost installation for ventilating and shielding equipment. Blind Stud mount, No-Hole mount and conventional mount are available with removable honeycomb panel. Attenuation on the order of 100 db are obtained up to ½ cutoff frequency. For ⅛" cell size, cutoff frequency is 48 gc. For ¼" cell size, cutoff frequency is 24 gc.



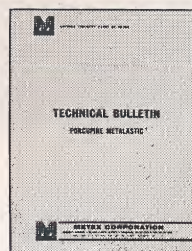
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NEW PORCUPINE METALASTIC™

FEATURES High Reliability Construction



Porcupine Metalastic is distorted solid monel sheeting in silicone rubber. Its great number of contact points give it more RF shielding pinch to the inch. Its compression characteristics make it excellent for vacuum, atmosphere or moisture seal. Porcupine Metalastic is also available without the silicone rubber to withstand the highest temperature of any flat gasket. Standard width is 8" . . . thickness .030". Other sizes also available. About 6¢ per sq. in. Write for free samples, prices and literature.



Write for technical bulletin.

Samples of These New Metex-Developed Products
are Available Upon Request.



METEX CORPORATION

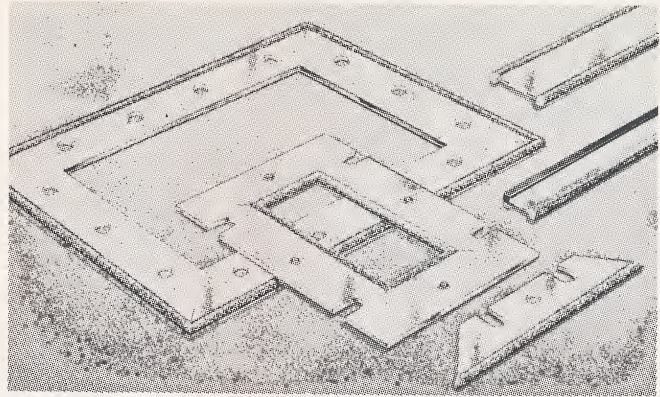
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West Coast Stock: 5057 West Washington Boulevard, Los Angeles, California



METALEX™ MOUNTING STRIP EXTRUSIONS

METALEX™ consists of a resilient, single fin METEX Electronic Weatherstrip® mechanically joined to an aluminum extrusion. Structural rigidity and ease of attachment are the results of the aluminum mounting strip. Spot-welding, screwing, riveting, and similar fastening techniques can be utilized.

For complete information, write for METEX Data Sheet ME-7.



Single Mesh

	Dimensions		Extrusion Number
	(a)	(b)	
	.093"	.375"	603793
	.093"	.437"	604393
	.125"	.375"	6037
	.125"	.500"	6050
	.125"	.625"	6062
	.125"	.750"	6075
	.125"	1.000"	60100
	.125"	1.250"	60125

Metex Electronic Weatherstrip for Above Extrusions

	Cross Section			Metex Part Number	
	Diameter	Width	Thickness	Monel	Aluminum
	3/16	—	—	-8	-7
	1/4	—	—	-3	-5
	3/16	over Sponge Neoprene Core	—	-10	-9
	3/16	over Sponge Silicone Core	—	-13	-15
	1/4	over Sponge Neoprene Core	—	-12	-11
	1/4	over Sponge Silicone Core	—	-16	-17
	—	1/8	5/32	-4	-6
	—	1/8	3/16	-2	-1

Double Mesh

	Dimensions		Extrusion Number
	(a)	(b)	
	.125"	.500"	6050
	.125"	.625"	606D
	.125"	1.250"	6012D

Sponge Rubber Seal for METALEX

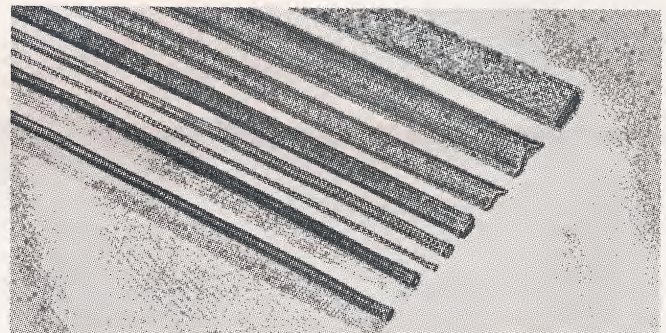
	Cross Section		Metex Part Number	
	Width	Thickness	Neoprene	Silicone
	1/8	3/16	NA	SA
	3/16	3/16	NC	SC
	3/16	1/4	NE	SE



SPECIAL ENGINEERED RF STRIP

Special Engineered RF Strips are designed by METEX to solve difficult and unusual RF gasketing problems in the most economical manner. They are made by knitting or wrapping METEX over a large variety of cores or by forming METEX into unusual cross sections. These special strips are used to solve such problems as a high degree of joint misfit or under conditions where the applied closing pressure on the joint is relatively low.

For complete information, write for METEX Data Sheet ME-9.



	Width		METEX Part No. Monel
	For Channel Width		
	9/16"	1/2"	10-210
	5/8"	1/2" to 9/16"	10-613
	13/16"	3/4"	10-215
	1-1/16"	3/4" to 7/8"	11-002
	1-1/8"	7/8" to 1"	10-764
	1-5/16"	1" to 1-1/8"	10-774
	2"	1-3/8" to 1-3/4"	11-511

	DIMENSIONS		PART NUMBERS		
	Diameter	O/A	Neoprene Sponge	Neoprene Tubing	Silicone Sponge
	1/8"	1/2"	11-862	11-871	10-690
	1/8"	5/8"	11-863	11-872	10-877
	1/8"	3/4"	11-864	10-833	11-878
	3/16"	1/2"	10-630	11-873	11-879
	3/16"	5/8"	11-865	10-523	11-880
	3/16"	3/4"	11-866	11-874	11-881
	1/4"	5/8"	10-819	10-778	11-882
	1/4"	3/4"	11-867	11-875	11-883
	1/4"	1"	11-868	11-876	11-884
	1/2"	1"	11-869	—	11-885
	5/8"	1-3/8"	11-870	—	10-734

	DIMENSIONS		PART NUMBERS	
	Height	Width	Neoprene Sponge	Silicone Sponge
	1/8"	1/8"	11-845	10-319
	1/8"	5/32"	11-518	10-666
	1/8"	3/16"	11-846	11-320
	1/8"	1/4"	11-847	11-853
	3/16"	3/16"	11-848	11-854
	1/4"	1/4"	11-564	11-855
	1/4"	3/8"	10-888	11-856
	1/4"	1/2"	11-849	11-857
	3/8"	1/2"	10-328	11-858
	3/8"	5/8"	11-850	11-859
	1/2"	1/2"	11-851	11-860
	1/2"	3/4"	11-852	11-861

Round Cross Section 2 Covers —Monel	DIMENSIONS		PART NUMBERS	
	Diameter	Neoprene Sponge	Neoprene Tubing	Silicone Sponge
	1/16"	—	10-861	11-890
	1/8"	10-541	10-570	11-891
	3/16"	10-571	11-887	11-892
	1/4"	10-627	11-888	11-893
	5/16"	10-626	10-913	11-894
	3/8"	11-886	—	11-895
	7/16"	10-747	—	11-896
	1/2"	10-845	—	11-897
3/4"	10-633	—	11-898	



METEX CORPORATION

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West Coast Stock: 5057 West Washington Boulevard, Los Angeles, California



KNITTED WIRE MESH

This material is produced as a two-ply flattened cylinder of varying width, loop spacing, wire sizes and metals. A crimping operation achieves a three-dimensional form for added resiliency. This mesh tape is used as a shielding or grounding material to cover or join irregularly shaped surfaces.

For complete information, write for METEX Data Sheet ME-8.

Width	Openings Per Inch	Machine Designation	Note
$\frac{5}{8}$ "- $\frac{3}{4}$ "	12-15	16- $\frac{3}{4}$	1
$\frac{3}{4}$ "- $\frac{7}{8}$ "	12-15	20- $\frac{7}{8}$	1
1"- $1\frac{1}{8}$ "	12-15	26- $1\frac{1}{8}$	1
1"- $1\frac{1}{4}$ "	20-24	32- $1\frac{1}{4}$	2
$1\frac{1}{8}$ "- $1\frac{1}{2}$ "	9-12	34- $1\frac{1}{2}$	1
$1\frac{3}{4}$ "- $2\frac{1}{8}$ "	20-24	48- $1\frac{3}{4}$	2
2"- $2\frac{1}{2}$ "	9-12	42- $2\frac{1}{4}$	

NOTES: (1) Can be used up to .005" dia. wire size. (2) Can be used up to .0045" dia. wire size.



Width	Openings Per Inch	Machine Designation	Note
$2\frac{3}{8}$ "- $2\frac{3}{4}$ "	6-9	38- $2\frac{3}{4}$	
$2\frac{3}{4}$ "- $3\frac{1}{8}$ "	12-15	62- $2\frac{3}{4}$	1
$3\frac{1}{2}$ "-4"	6-9	56-4	
$3\frac{3}{4}$ "- $4\frac{1}{4}$ "	12-15	98-4	1
6"- $7\frac{1}{2}$ "	6-9	76- $5\frac{1}{2}$	
6"- $7\frac{1}{2}$ "	9-12	100- $5\frac{1}{2}$	
6"- $7\frac{1}{2}$ "	12-15	130- $5\frac{1}{2}$	1

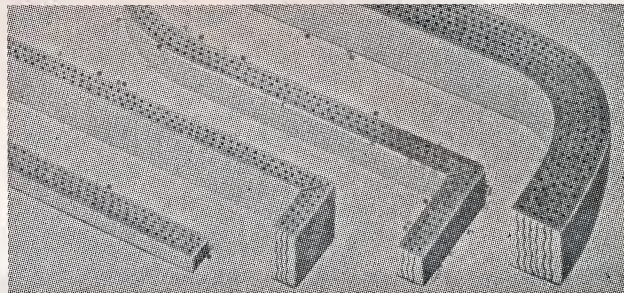


POLASTRIP

Oriented Wire
Shielding Material

This unique METEX advance consists of oriented wire mesh embedded in a matrix of elastomeric material. It is the only material of its kind which offers a combination of pressure, and RFI seal in a reliable, fail-proof construction. It will yield an overall system attenuation from 125 to 135db. Other innovations in the Polastrip family are: Combo-Polastrip for flat flange applications; Polaring—a continuous strip without a joint molded in a circular form; Polaframe—Polastrip bonded to aluminum extrusion; Polasheet—for complex gaskets die cut from Polastrip.

For complete information, write for METEX Data Sheet ME-10.



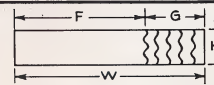
DIMENSIONS		PART NUMBERS			
Width	Height	Monel in Solid Silicone	Monel in Sponge Silicone	Aluminum in Solid Silicone	Aluminum in Sponge Silicone
$1/8 \times 1/8$ "		14-004	14-032	14-048	14-068
$1/8 \times 5/32$ "		14-096	14-097	14-098	14-099
$1/8 \times 3/16$ "		14-019	14-033	14-049	14-069
$1/8 \times 1/4$ "		14-100	14-101	14-102	14-103
$3/16 \times 1/8$ "		14-020	14-034	14-050	14-070
$3/16 \times 3/16$ "		14-011	14-014	14-051	14-071
$3/16 \times 1/4$ "		14-017	14-035	14-052	14-073
$3/16 \times 5/16$ "		14-016	14-036	14-053	14-073
$3/16 \times 3/8$ "		14-104	14-105	14-106	14-107
$1/4 \times 1/8$ "		14-010	14-013	14-054	14-074
$1/4 \times 3/16$ "		14-021	14-037	14-055	14-075
$1/4 \times 1/4$ "		14-003	14-012	14-056	14-076
$1/4 \times 5/16$ "		14-022	14-038	14-057	14-077
$1/4 \times 3/8$ "		14-023	14-039	14-058	14-078
$1/4 \times 1/2$ "		14-108	14-109	14-110	14-111
$5/16 \times 1/8$ "		14-024	14-040	14-059	14-079
$5/16 \times 3/16$ "		14-025	14-041	14-060	14-080
$5/16 \times 1/4$ "		14-026	14-042	14-061	14-081
$5/16 \times 5/16$ "		14-027	14-043	14-062	14-082
$5/16 \times 3/8$ "		14-112	14-113	14-114	14-115
$5/16 \times 1/2$ "		14-116	14-117	14-118	14-119
$3/8 \times 1/8$ "		14-028	14-044	14-063	14-083
$3/8 \times 3/16$ "		14-120	14-121	14-122	14-123
$3/8 \times 1/4$ "		14-029	14-045	14-064	14-084
$3/8 \times 5/16$ "		14-124	14-125	14-126	14-127
$3/8 \times 3/8$ "		14-030	14-046	14-065	14-085
$3/8 \times 1/2$ "		14-128	14-129	14-130	14-131
$3/8 \times 5/8$ "		14-132	14-133	14-134	14-135

DIMENSIONS

PART NUMBERS

Width	Height	Monel in Solid Silicone	Monel in Sponge Silicone	Aluminum in Solid Silicone	Aluminum in Sponge Silicone
$1/2 \times 1/8$ "		14-088	14-090	14-092	14-094
$1/2 \times 3/16$ "		14-089	14-091	14-093	14-095
$1/2 \times 1/4$ "		14-031	14-015	14-066	14-086
$1/2 \times 5/16$ "		14-136	14-137	14-138	14-139
$1/2 \times 3/8$ "		14-140	14-141	14-142	14-143
$1/2 \times 1/2$ "		14-009	14-047	14-067	14-087
$1/2 \times 5/8$ "		14-144	14-145	14-146	14-147
$1/2 \times 3/4$ "		14-148	14-149	14-150	14-151
$5/8 \times 1/8$ "		14-152	14-158	14-164	14-170
$5/8 \times 3/16$ "		14-153	14-159	14-165	14-171
$5/8 \times 1/4$ "		14-154	14-160	14-166	14-172
$5/8 \times 3/8$ "		14-155	14-161	14-167	14-173
$5/8 \times 1/2$ "		14-156	14-162	14-168	14-174
$5/8 \times 5/8$ "		14-157	14-163	14-169	14-175

COMBO POLASTRIP



DIMENSIONS			PART NUMBERS	
"W"	"H"	"F"	Monel in Solid Silicone	Monel in Sponge Silicone
Width	Height	Flange		
$3/8 \times 1/8$ "		$3/16$ "	14-176	14-187
$1/2 \times 1/8$ "		$1/4$ "	14-177	14-188
$5/8 \times 1/8$ "		$3/8$ "	14-178	14-189
$3/4 \times 1/8$ "		$1/2$ "	14-179	14-190
$3/8 \times 3/16$ "		$3/16$ "	14-180	14-191
$1/2 \times 3/16$ "		$1/4$ "	14-181	14-192
$5/8 \times 3/16$ "		$3/8$ "	14-182	14-193
$3/4 \times 3/16$ "		$1/2$ "	14-183	14-194
$1/2 \times 1/4$ "		$1/4$ "	14-184	14-195
$5/8 \times 1/4$ "		$3/8$ "	14-185	14-196
$3/4 \times 1/4$ "		$1/2$ "	14-186	14-197



METEX CORPORATION

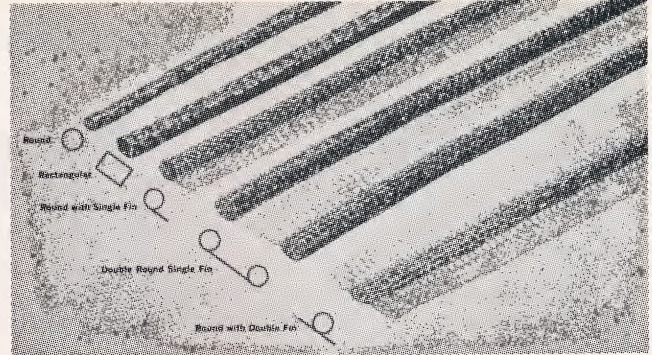
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West Coast Stock: 5057 West Washington Boulevard, Los Angeles, California



STANDARD ELECTRONIC WEATHERSTRIP®

METEX Electronic Weatherstrip, made from knitted wire mesh, combines resiliency, flexibility and conductivity that make it possible to establish electrical continuity in even the most intricately shaped joints for an effective RF shield. It is available in rectangular, round, round with single fin and double round with single fin. A single round, double-fin type, (not listed) is available in 48 sizes.

For complete information, write for METEX Data Sheet ME-2.



Rectangular Cross Section

		Metex Part Number		
Width	Height	Monel	Aluminum	Silver-Plated Brass
1/16	1/16	10-408	10-401	10-410
3/32	3/32	10-424	10-267	10-313
1/8	1/16	10-218	10-499	11-070
1/8	3/32	10-377	10-728	10-252
1/8	1/8	10-199	10-204	10-230
1/8	5/32	10-194	10-182	10-338
3/16	1/16	10-213	10-649	11-141
3/16	3/32	10-203	11-028	10-233
3/16	1/8	10-177	10-171	11-145
3/16	3/16	10-168	10-143	10-757
1/4	1/16	10-144	10-179	10-643
1/4	3/32	10-167	11-140	10-900
1/4	1/8	10-153	10-173	10-458
1/4	3/16	10-158	10-495	11-142
1/4	1/4	10-169	10-268	10-478
5/16	1/16	10-777	11-143	11-146
5/16	3/32	10-332	10-158	11-147
5/16	1/8	10-336	10-654	10-699
5/16	3/16	10-516	10-653	11-148
5/16	1/4	10-581	10-389	11-149
5/16	5/16	10-390	11-144	11-150
3/8	1/16	10-149	10-206	10-644
3/8	3/32	10-197	10-448	11-151
3/8	1/8	10-192	10-761	10-547
3/8	3/16	10-217	10-414	11-082
3/8	1/4	10-310	10-787	11-153
3/8	3/8	10-265	10-708	11-154
1/2	1/16	10-780	10-801	11-818
1/2	3/32	10-285	10-442	11-819
1/2	1/8	10-286	10-159	10-656
1/2	3/16	11-639	11-814	10-509
1/2	1/4	11-523	11-623	11-820
5/8	1/16	10-812	11-620	11-828
5/8	3/32	10-238	11-821	11-829
5/8	1/8	11-607	10-939	10-459
5/8	3/16	11-815	11-822	11-830
5/8	1/4	10-818	11-823	10-684
5/8	3/8	11-816	11-621	11-831
3/4	1/16	10-258	11-081	11-832
3/4	1/8	10-251	10-784	11-833
3/4	3/16	10-547	11-824	11-834
3/4	1/4	11-530	11-825	11-835

1	1/16	11-539	10-635	11-836
1	1/8	11-092	11-826	10-454
1	3/16	11-817	11-067	11-837
1	1/4	11-598	11-827	11-838

Double Round, Single Fin Cross Section

		Metex Part Number		
Diameter	Overall Dimension	Monel	Aluminum	Silver-Plated Brass
1/16	1/2	10-922	11-263	11-268
1/16	5/8	10-041	11-264	11-269
1/16	3/4	11-261	11-265	11-270
1/16	7/8	11-262	11-266	11-271
1/8	1/2	10-449	10-045	11-272
1/8	5/8	10-012	10-430	10-677
1/8	3/4	10-085	10-697	11-273
1/8	7/8	10-515	10-407	11-274
1/8	1	10-625	11-267	11-275
3/16	5/8	10-019	11-279	10-678
3/16	3/4	10-049	10-048	11-285
3/16	7/8	10-735	10-416	11-286
3/16	1	10-344	11-280	11-287
1/4	3/4	10-949	11-281	11-288
1/4	7/8	11-276	11-282	11-289
1/4	1	10-452	10-701	11-290
3/8	1	11-277	11-283	11-291
3/8	1-1/4	11-278	11-284	11-292

Round Cross Section

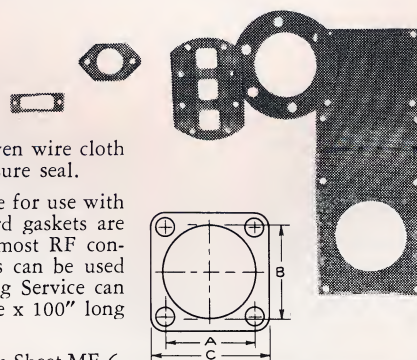
		Metex Part Number		
Diameter	Dimension	Monel	Aluminum	Silver-Plated Brass
1/16		10-064	10-131	10-412
3/32		10-056	10-775	10-309
1/8		10-006	10-035	10-118
5/32		10-311	10-124	11-155
3/16		10-020	10-029	10-253
1/4		10-250	10-032	10-337
5/16		10-439	10-026	10-548
3/8		10-017	10-877	11-329
7/16		10-088	11-156	11-157
1/2		10-110	10-575	11-158

Single Round, Single Fin Cross Section

		Metex Part Number		
Diameter	Overall Dimension	Monel	Aluminum	Silver-Plated Brass
1/16	3/8	10-983	10-827	10-825
1/16	1/2	10-756	10-053	11-177
1/16	5/8	10-091	11-165	10-871
1/16	3/4	11-160	11-166	11-178
3/32	3/8	10-826	10-828	10-824
3/32	1/2	10-977	11-167	11-179
3/32	3/4	10-998	11-168	11-180
1/8	3/8	10-008	10-095	10-343
1/8	7/16	10-076	10-065	10-114
1/8	1/2	10-060	10-043	11-062
1/8	9/16	11-161	11-169	11-182
1/8	5/8	10-061	10-334	10-340
1/8	3/4	10-079	11-170	11-183
5/32	1/2	11-162	11-171	11-185
5/32	3/4	11-163	11-173	11-186
3/16	7/16	10-075	11-174	11-187
3/16	1/2	10-092	11-175	11-188
3/16	5/8	10-058	10-066	10-288
3/16	3/4	10-051	10-031	11-189
3/16	7/8	11-164	11-176	11-190
1/4	1/2	11-331	11-194	11-207
1/4	5/8	10-109	10-341	10-342
1/4	3/4	10-106	10-034	10-247
1/4	7/8	10-534	11-195	11-208
1/4	1	11-330	11-196	11-209
5/16	5/8	10-530	10-028	10-542
5/16	3/4	10-362	11-197	11-210
5/16	7/8	10-592	11-198	11-211
3/8	5/8	10-568	11-199	11-212
3/8	3/4	11-191	10-546	11-213
3/8	7/8	10-009	11-200	11-214
3/8	1	10-270	10-536	11-215
7/16	3/4	11-192	11-201	11-216
7/16	7/8	10-098	11-202	11-217
7/16	1	10-274	11-203	11-218
1/2	3/4	10-789	11-204	11-219
1/2	7/8	11-193	11-205	11-220
1/2	1	11-040	11-206	11-221



METALASTIC GASKETS



METEX Metalastic Gaskets are made from woven wire cloth and rubber to provide an efficient RF and pressure seal.

A standard line of Metalastic Gaskets is available for use with AN Connectors, Series 3100 and 3102. Standard gaskets are also available for Type SP, PC, and PT, and most RF connectors. Specially engineered Metalastic Gaskets can be used to solve difficult problems. METEX Engineering Service can design Metalastic Gaskets in sizes up to 8" wide x 100" long to meet special requirements.

For complete information, write for METEX Data Sheet ME-6.

Shell Size	Dimension				Metex Part No.	
	"A"	"B"	"C"	"D"*	.020 Neoprene	.020 Silicone
8	.594	.500	.875	.172	40-008	42-495
10	.719	.625	1.000	.172	40-010	42-371
12	.813	.750	1.094	.172	40-012	42-470
14	.906	.875	1.188	.172	40-014	42-483
16	.969	1.000	1.281	.172	40-016	42-488
18	1.063	1.125	1.375	.203	40-018	42-489
20	1.156	1.250	1.500	.203	40-020	42-484
22	1.250	1.375	1.625	.203	40-022	42-485
24	1.375	1.500	1.750	.203	40-024	42-490
28	1.563	1.750	2.000	.203	40-028	42-491
32	1.750	2.000	2.250	.219	40-032	42-492
36	1.938	2.188	2.500	.219	40-036	42-493
40	2.188	2.438	2.750	.219	40-040	42-494
44	2.375	2.781	3.000	.219	40-044	42-599
48	2.625	3.031	3.250	.219	40-048	42-600



METEX CORPORATION

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West Coast Stock: 5057 West Washington Boulevard, Los Angeles, California



STANDARD & CONTEX™ COMBO-STRIP

METEX Combo Strips are combination RF shielding and sealing gaskets in strip form. In Combo-Strip, METEX Electronic Weatherstrip® and a sealing material are attached to make a single unit that is both RF and pressure tight. The material used for the sealing portion is usually closed cell sponge neoprene, although any sealing material may be furnished where required.

Combo-strips are available with pressure sensitive adhesive backing. Add letters "SB" to part numbers to obtain adhesive backing.

METEX Engineering Service will be happy to develop special strips to answer problems not solved by stock items listed.

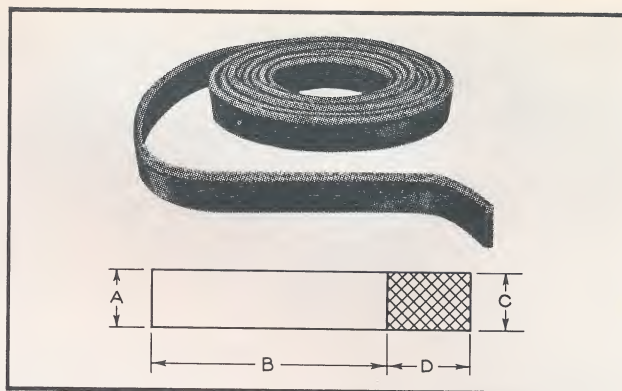
For complete information, write for METEX Data Sheet ME-3.

Single RF Shield

DIMENSIONS				PART NUMBERS	
A	B	C	D	Monel — Neoprene Sponge	Monel — Silicone Sponge
1/16"	1/4"	1/16"	1/8"	11-756	11-772
1/16"	3/8"	1/16"	1/8"	11-757	11-773
1/16"	1/2"	1/16"	1/8"	11-692	11-774
1/16"	5/8"	1/16"	1/8"	11-739	11-775
3/32"	1/4"	3/32"	1/8"	11-344	11-776
3/32"	3/8"	3/32"	1/8"	11-332	11-777
3/32"	1/2"	3/32"	1/8"	11-758	11-778
3/32"	3/4"	3/32"	1/8"	11-333	11-779
1/8"	1/8"	1/8"	1/8"	11-138	11-780
1/8"	3/16"	1/8"	3/16"	11-136	11-781
1/8"	1/4"	1/8"	1/8"	11-135	11-782
1/8"	1/4"	1/8"	1/4"	11-130	11-783
1/8"	3/8"	1/8"	1/8"	11-132	11-784

DIMENSIONS				PART NUMBERS	
A	B	C	D	Monel — Neoprene Sponge	Monel — Silicone Sponge
1/8"	1/2"	1/8"	1/8"	11-134	11-785
1/8"	1/2"	1/8"	1/4"	11-131	11-786
1/8"	1/2"	1/8"	1/2"	11-133	11-787
1/8"	5/8"	1/8"	1/8"	11-055	11-788
1/8"	3/4"	1/8"	1/8"	11-759	11-789
3/16"	3/16"	1/8"	1/8"	11-760	11-790
3/16"	1/4"	5/32"	1/8"	11-056	11-515
3/16"	1/4"	3/16"	1/8"	11-622	11-791
3/16"	3/8"	3/16"	1/8"	11-761	11-792
3/16"	1/2"	3/16"	1/8"	11-762	11-793
3/16"	3/4"	3/16"	1/4"	11-763	11-794
1/4"	1/4"	1/4"	1/8"	11-764	11-795
1/4"	1/2"	1/4"	1/8"	11-766	11-797

DIMENSIONS				PART NUMBERS	
A	B	C	D	Monel — Neoprene Sponge	Monel — Silicone Sponge
1/4"	3/4"	1/4"	1/8"	11-767	11-798
3/8"	1/4"	3/8"	1/8"	10-817	11-800
3/8"	1/2"	3/8"	1/4"	11-768	11-801
3/8"	3/4"	3/8"	1/4"	11-769	11-802
Double RF Shield					
1/8"	1/4"	1/8"	1/8"	11-765	11-796
1/8"	3/8"	1/8"	1/8"	11-770	11-799
1/8"	1/2"	1/8"	1/8"	11-771	11-803
1/8"	1/4"	5/32"	1/8"	11-804	11-805
1/8"	3/8"	5/32"	1/8"	11-681	11-806
1/8"	1/2"	5/32"	1/8"	11-807	11-810
3/16"	1/4"	3/16"	1/8"	11-808	11-811
3/16"	1/2"	3/16"	1/8"	11-809	11-812



COMBINATION RF GASKETS

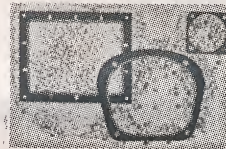
METEX Combination RF Gaskets are designed for use in joints that must be both pressure and RF tight. In these gaskets, sealing material and METEX RF Weatherstrip® are bonded into a single component.

METEX Compressed RF Gaskets are usually used in smaller rectangular and round combinations. In the larger sizes, METEX Electronic Weather-

strip is joined to make a continuous gasket. The joint in the strip is carefully made and wrapped with a fine, knitted mesh to retain the strip ends. After wrapping, the entire joint is reformed so that the cross section is the same as the strip.

The material usually used for the sealing portion of the combination gasket is a 35-45 or 45-55 durometer Neoprene. Where special conditions must be met, other materials may be used.

For complete information, write for METEX Data Sheet ME-5.



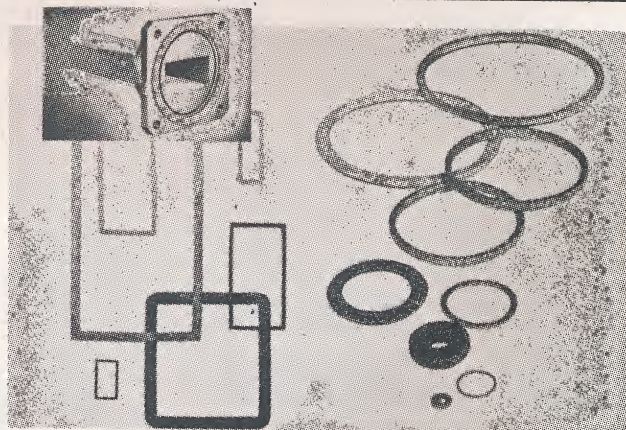
COMPRESSED RF GASKETS

METEX Compressed RF Gaskets are made from knitted wire mesh that is die formed to the required size and shape under pressure. There are no joints, metal clips or shavings in the gaskets to cause trouble. Each individual gasket is made from a mesh that is knitted from one or two continuous wires. The gaskets are inherently conductive and resilient and will compensate for joint unevenness.

The shapes of METEX Compressed RF Gaskets are limited only by the size and shape of the dies.

METEX Electronics has available a large stock of forming dies for compressed gaskets. We suggest that designers consult with METEX Engineering Service on availability.

For complete information, write for METEX Data Sheet ME-4.



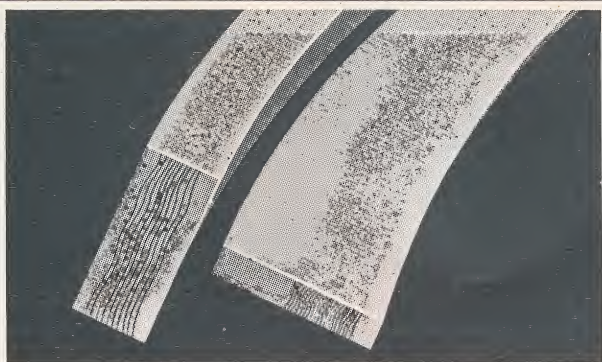
Asema Flange No.	Metex Part No.	Gasket Material	Asema Waveguide No.	Substitute for "O" Ring M. S. No.
UG-40 B/U	17-4	Monel	RG-52/U	90064-13
UG-52 B/U	307-1	Monel	RG-51/U	90064-14
UG-54 B/U	406-1	Monel	RG-48/U	90064-17
UG-136 B/U	17-15	Aluminum	RG-67/U	90064-13
UG-137 B/U	307-3	Aluminum	RG-68/U	90064-14
UG-148 C/U	358-1	Monel	RG-49/U	90064-16
UG-343 B/U	426-1	Monel	RG-50/U	90064-15
UG-406 B/U	358-2	Aluminum	RG-95/U	90064-16
UG-417 A/U	32-912	Monel	RG-69/U	90065-2
UG-418 A/U	32-913	Aluminum	RG-103/U	90065-2
UG-435 A/U	32-911	Monel	RG-104/U	90065-3

Asema Flange No.	Metex Part No.	Gasket Material	Asema Waveguide No.	Substitute for "O" Ring M. S. No.
UG-437 A/U	30-618	Aluminum	RG-105/U	90065-3
UG-440 B/U	426-2	Aluminum	RG-106/U	90064-15
UG-541 A/U	157-2	Monel	RG-91/U	90064-12
UG-541 A/U	157-2	Monel	RG-107/U	90064-12
UG-553/U	32-909	Monel	RG-112/U	90065-1
UG-554/U	32-910	Aluminum	RG-113/U	90065-1
UG-585 A/U	406-2	Aluminum	RG-75/U	90064-17
UG-596 A/U	439-2	Monel	RG-53/U	90064-11
UG-596 A/U	439-2	Monel	RG-66/U	90064-11
UG-598 A/U	439-3	Aluminum	RG-121/U	90064-11
UG-600 A/U	527-3	Monel	RG-96/U	90064-10



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West Coast Stock: 5057 West Washington Boulevard, Los Angeles, California



U. S. Patent #2,674,644

POLASTRIP...

seals and shields with a single material

Polastrip consists of oriented wire (typically monel or aluminum wire) imbedded in a matrix of silicone rubber. It is available as a standard item in several thousand cross-sections and types. Polastrip has proven itself

to be the most effective shielding material available for solving many difficult shielding problems. Cost is comparable to conventional, combination materials.

Write for free samples, prices, and literature!

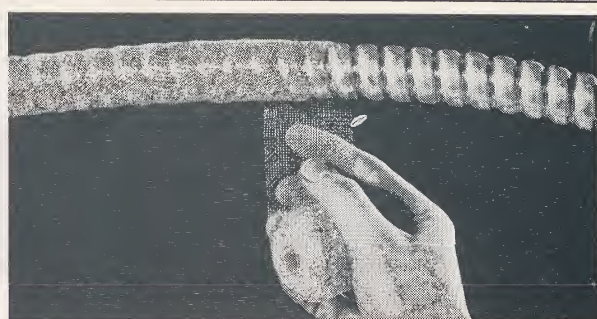
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West Coast: 5057 W. Washington Blvd., Los Angeles



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Metex RFI Shielding Tape

...the ideal inexpensive approach for shielding cable assemblies

Shielding tapes can be provided in several materials. The most popular materials are monel, aluminum, silver plated brass and tin plated copper clad steel. These tapes can be provided in continuous lengths in widths from 1/2"

They are highly flexible and easy to apply to odd shaped cable assemblies or equipment to provide excellent shielding coverage. Write for free samples, prices, literature, or ask us for engineering assistance!

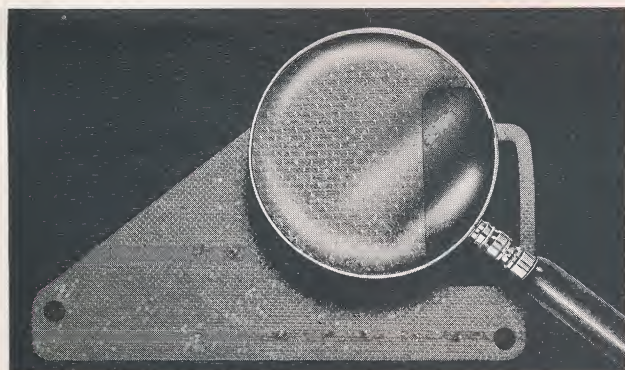
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Porcupine Metalastic™

...seals and shields with more RF pinch to the inch

Porcupine Metalastic is distorted solid monel sheeting in silicone rubber. Its great number of contact points give it more RF shielding pinch to the inch. Its compression characteristics make it excellent for vacuum, atmosphere or moisture seal. Porcupine

Metalastic is also available without the silicone rubber to withstand the highest temperature of any flat gasket. Standard width is 8" ... thickness .030". Other sizes also available. About 6¢ per sq. in. Write for free samples, prices and literature.

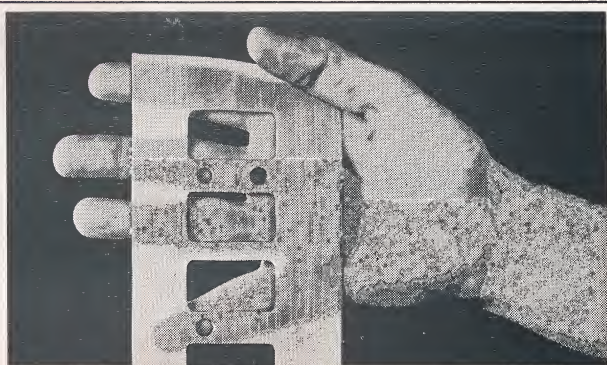
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U. S. Patent No. 3,126,440

POLASHEET II

first truly effective pressure & RFI seal for connectors!

Polasheet II is oriented wire imbedded in silicone rubber sheets just .062" thick. Yields overall system attenuation of 125-135 db ... with sealing pressures up to 30 psi. Can be die

cut into resilient, flexible gaskets of any shape. Compressible, too, so machined surfaces are not needed. About 12¢ per sq. in. Write for Free Samples, prices, literature!

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